

10/586826

JAP20 Rec'd PCT/PTO 20 JUL 2006

Docket No.: 13156-00062-US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Ferenc Molnar et al.

Application No.: National Phase of
PCT/EP2005/000534

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: CATALYST FOR THE CARBONYLATION
OF OXIRAINES

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

10/586826

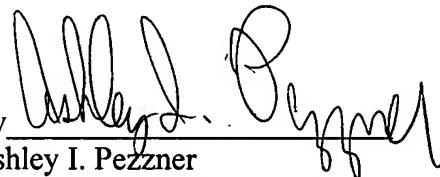
Application No.: National Phase of PCT/EP2005/000534

Docket No.: 13156-00062-US

iAP20 Rec'd PCT/PTO 20 JUL 2006

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 03-2775, under Order No. 13156-00062-US.

Respectfully submitted,

By 
Ashley I. Pezzner

Registration No.: 35,646
CONNOLLY BOVE LODGE & HUTZ LLP
1007 North Orange Street
P.O. Box 2207
Wilmington, Delaware 19899
(302) 658-9141
(302) 658-5614 (Fax)
Attorney for Applicant

475284

AP20 Rec'd PCT/PTO 20 JUL 2006

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

107586826

Substitute for form 1449A/B/PTO				Completed Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(Use as many sheets as necessary)					
Sheet	1	of	1	Attorney Docket Number	13156-00062-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		
AA*	US-2005/0256320		11-17-2005	Luinstra et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number-Kind Code ⁴ (if known)	MM-DD-YYYY		
BA	GB-1,020,575		02-23-1966	Imperial Chemical House	
BB	EP-0 577 206		01-05-1994	Shell International Research	
BC	EP-0 688 806		12-27-1995	Tokuyama Corporation	
BD	JP-09-169753		06-30-1997	Tokuyama Corporation	See Translation
BE	WO-03/050154		06-19-2003	Cornell Research Foundation Inc.	
BF	WO-2004/012860		02-12-2004	BASF	See US 2005/0256320

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	CA	Ferenc, Molnar et al., "Multisite Catalysis: A Mechanistic Study of β -Lactone Synthesis from Epoxides and CO - Insights into a Difficult Case of Homogeneous Catalysis", Chem. Eur. J. 9(6) (2003), pp. 1273-1280.			
	CB	Lee, J. T. et al., "Synthesis of β -Lactones by the Regioselective, Cobalt and Lewis Acid Catalyzed Carbonylation of Simple and Functionalized Epoxides", J. Org. Chem. 66 (2001), pp. 5424-5426.			
	CC	Kamiya, Yoshio et al., "The Reaction of Small Ring Compound with Carbon Monoxide The Carbonylation of Oxirane", The Chemical Society of Japan, Chemistry Letters (1980), pp. 1549-1552.			
	CD	Hinterding, K. et al., "Regioselective Carbomethoxylation of Chiral Epoxides: A New Route to Enantiomerically Pure β -Hydroxy Esters", J. Org. Chem. 64 (1999), pp. 2164-2165.			
	CE	Getzler, Y. D.Y.L. et al., "Synthesis of β -Lactones: A Highly Active and Selective Catalyst for Epoxide Carbonylation", J. Am. Chem. Soc. 124(7) (2002), pp. 1174-1175.			
	CF	Allmendinger, M., "Dissertation: Investigations on the Carbonylation of Oxiraines - Syntheses of Aliphatic Polyesters from Epoxides and Carbon Monoxide", University Ulm, 2003, pp. 109-115.			
	CG	Mahadevan, V. et al., "[Lewis Acid][Co(CO) ₄] Complexes: A Versatile Class of Catalysts for Carbonylative Ring Expansion of Epoxides and Aziridines", Angew. Chem. Int. Ed. 41(15) (2002), pp. 2781-2784.			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
--------------------	-----------------

475285